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TITLE: SAIL CLOTH

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INVENTOR-INFORMATION:

NAME

COUNTRY

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ABSTRACT:

PROBLEM TO BE SOLVED: To provide a sail cloth made of polybenzazole fiber that causes a low level of strength degradation even when it is exposed to high temperature and high humidity conditions for a long period of time.

SOLUTION: An organic pigment that has high heat resistance with a thermal decomposition temperature of $\geq 200^{\circ}\text{C}$ and dissolves in mineral acid, preferably bears -N= and/or NH- groups in its molecular structure, particularly perinone and/or perylene, phthalocyanine or quinacridone is included in the fiber thereby polybenzazole fiber having a strength retention rate of $\geq 80\%$ is obtained after the fiber is twisted at a twist coefficient of 30, then the twist coefficient is loosened to 6 after 30 seconds and then treated under the conditions of a temperature of 80°C and a relative humidity of 80% for 240 hours. The high-strength fiber made of polybenzazole with a strength retention rate of $\geq 80\%$ is partially used to produce the sail cloth.

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